## DYNAMIC POINTING ACCURACY EVALUATION SYSTEM AND METHOD USED WITH A GUN THAT FIRES A PROJECTILE UNDER CONTROL OF AN AUTOMATED FIRE CONTROL SYSTEM

## ABSTRACT OF THE DISCLOSURE

A dynamic pointing accuracy evaluation system is used in conjunction with a weapon system that includes a gun that fires a projectile from a barrel toward a target. The firing of the projectile occurs upon receipt of a shoot command from an automated fire control system that is activated by a firing command generated by a gunner viewing the target through a gun sight. The dynamic pointing accuracy evaluation system includes a firing-image camera mounted to a barrel of the gun and aimed parallel to a boresight of the gun. A photo trigger command line transmits a photo trigger command from the fire control system to the firing-image camera. The firing-image camera produces a firing image upon receipt of the photo trigger command. A computer receives the firing image and determines a calculated strike location from the firing image and from a range of the gun to the target.